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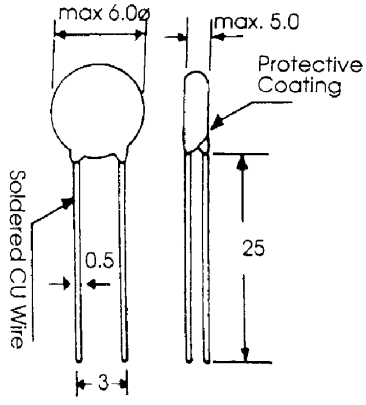
NTC THERMISTOR

Model No.	Resistance at 25°C(Ω)	B Contant 25/50°C (K)	Resistance Temp. Coeff 25°C(%/°C)
NTC-700	70	3,100	-3.5
NTC-900	90	3,100	-3.5
NTC-101	100	3,100	-3.5
NTC-121	120	3,100	-3.5
NTC-151	150	3,100	-3.5
NTC-201	200	3,100	-3.5
NTC-221	220	3,100	-3.5
NTC-251	250	3,100	-3.5
NTC-271	270	3,100	-3.5
NTC-301	300	3,100	-3.5
NTC-401	400	3,100	-3.5
NTC-501	500	3,100	-3.5
NTC-681	680	3,500	-3.9
NTC-102	1,000	3,800	-4.3
NTC-152	1,500	3,800	-4.3
NTC-202	2,000	3,800	-4.3
NTC-252	2,500	3,900	-4.4
NTC-302	3,000	3,900	-4.4
NTC-402	4,000	3,900	-4.4
NTC-502	5,000	3,900	-4.4
NTC-682	6,800	3,900	-4.4
NTC-103	10,000	4,100	-4.6
NTC-153	15,000	4,100	-4.6
NTC-203	20,000	4,200	-4.7
NTC-303	30,000	4,200	-4.7
NTC-503	50,000	4,200	-4.7
NTC-683	68,000	4,400	-4.9
NTC-104	100,000	4,400	-4.9
NTC-154	150,000	4,400	-4.9
NTC-204	200,000	4,500	-5.1
NTC-304	300,000	4,500	-5.1
NTC-504	500,000	4,600	-5.2

FOR TEMPERATURE COMPENSATION
5..ø NTC SERIES



* Resistance Value allowable difference.

J	K	L	M
±5%	±10%	±15%	±20%

. B-Constant deviation : ±10%(Calculated by R25 & R50)
. Thermal dissipation factor : 6.5mw/C
. Thermal time constant : 20 sec.
. Operating temp. range : - 30° ~ + 130°C
. Max. Allowable power (25°C): 0.55W

Jameco Part Number 207491

PHYSICAL PROPERTIES

■ RESISTANCE - TEMPERATURE CHARACTERISTICS

of the termistors is the relation between resistance & temperature, the expression as follows:

(1) $R1=R2 \cdot \exp B(1/T1 - 1/T2)$

WHERE : R1 is the resistance value at absolute temperature T1
R2 is the resistance value at absolute temperature T2
B is a constant depending on each thermistor

(2) According to the above formula, B can be expressed by:
$B=Ln(R1/R2)/(1/T1 - 1/T2)$

■ TEMPERATURE COEFFICIENT OF RESISTANCE

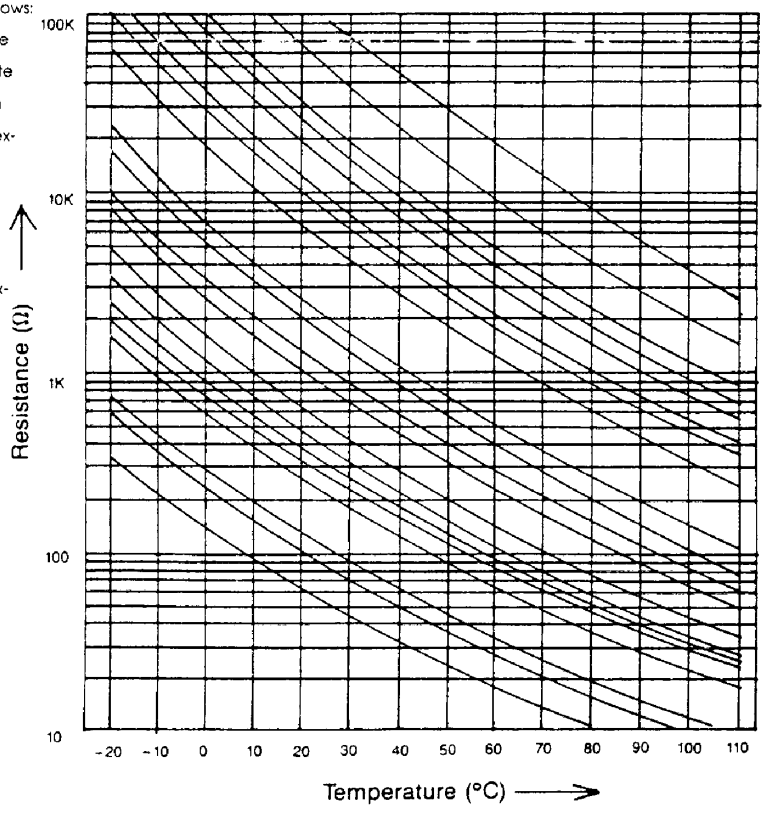
(α) originates from the above formula (1), the expression as follows:
$\alpha = - B/T_2$

■ DISSIPATION CONSTANT

(δ) is defined for power in milliwatts necessary for rasising temperature of the thermistor by 1°C, as follows:
$\delta = P/\Delta t$ (mW/°C)
(P : POWER Δt: rasie temperature)

■ TIME CONSTANT (T.C.)

is regard as the time required for a thermistor to change 63% of the difference between its initial and final temperature.



NTC SENSOR Thermistors Assembly

HOW TO ORDER

NTC- [ ] A
Model No. Assembly